

WELDER

Purpose:

Fabricate, cut, join, and repair metal items

Functions:

1. Fabricate, cut, join, and repair metal items
 - * A. Read and interpret blueprints, drawings, plans, patterns, and specifications.
 - * B. Cut metal items using various methods, such as band saws, hack saws, hand and power shears and snipe, gas torch and plasma cutting equipment, etc.
 - * C. Grind, shape, and form metal items to size and shape necessary, to allow for finished weld bead and bead penetration, and to clean up the finished part.
 - * D. Join metal items using various methods and equipment, such as gas torch welder, stick electrode welder, wire feed welder, tungsten-inert gas welder, plasma welder, etc.
 - * E. Repair cracked and broken components using methods and equipment such as those listed above.
 - * F. Disassemble and reassemble equipment to reach and repair component parts as listed above.
 - * G. Clean metal parts by brushing, blasting, chemical application, etc.
 - * H. Inspect vehicles to determine repairs necessary and to verify proper finished repair and road worthiness in accordance with DOT requirements.
2. Maintain vehicle-pulled trailers.
 - A. Repair trailers using methods and practices such as those listed above.
 - B. Test and repair trailer lighting systems.
 - C. Test and repair trailer braking systems.
 - D. Inspect trailers to determine repairs necessary and to verify proper finished repair and road worthiness in accordance with DOT requirements.
3. Perform related duties
 - A. Move equipment into and out of the shop for repair.
 - B. Operate repair vehicle with mobile welding equipment.
 - C. Design patterns and modify equipment to increase functionally.
 - D. Maintain tools, welders, equipment, and the assigned work area.
 - E. Advise on the selection and purchase of necessary tools, materials, and equipment.
 - F. Follows all relevant safety practices and guidelines.

MINIMUM QUALIFICATIONS:

Education & Experience

- A. A combination of education and/or experience equivalent to three years' full-time experience in fabricating, cutting, and joining metal items.

License

- A. Certification as a Minnesota Commercial Motor Vehicle Inspector

Knowledge

- A. Extensive knowledge of the properties of various metals.
- B. Extensive knowledge of the tools, materials, and techniques of welding.
- C. Knowledge of low-voltage vehicle wiring and electrical systems and their repair
- D. Knowledge of vehicle braking systems, both hydraulic and air.

Skills

- A Skill at welding using electric arc welder, both AC and DC, and in various positions.
- B. Skill at welding and cutting using oxygen/acetylene gas equipment.
- C. Skill at welding using metal/inert gas equipment.
- D. Skill at reading blueprints, drawings, plans, and patterns.

Abilities

- A Ability to weld using various processes and equipment.
- B. Ability to transport oneself using the repair vehicle.
- C. Ability to drive various equipment into and out of the shop for repair.
- D. Ability to position oneself in various portions for access to equipment to repair anchor weld.
- E. Ability to lift, carry, and hold palls weighing 50 pounds to position them for welding.
- F. Ability to use tools for disassembly and reassembly of equipment.
- G. Ability to lay out and fabricate equipment modifications.
- H. Ability to work outdoors in inclement weather.
- I. Ability to repair vehicle electrical lighting systems.
- J. Ability to repair vehicle braking systems.

- * Essential functions of the classification.
- Minimum requirements necessary on the first day of employment

Anlst: CT	Date:
Union: Basic	Pay: 28
CSB: 19971007	Class: 4431
CC: 19971215	Res: 97-0968R